0406 – (General) **TURF:** Agrotis palustris (Huds)
TURFGRASS ANT; Lasius neoniger Emery

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ANT MOUNDING ON A GOLF COURSE FAIRWAY, 2004: An irrigated bentgrass section of the ninth fairway at McQuire's Resort in Cadillac, MI was divided into sixty 12 ft X 12 ft plots with a 3 ft buffer between plots. Plots were blocked based on precounts taken on 6/17/04 by counting the number of active ant mounds. The treatments were applied on 6/17/04 with a CO_2 powered R&D backpack boom sprayer at 175 gal finished spray/acre at 50 psi with four 8008. Plots were evaluated on 17 Jun, 23 Jun, 1 Jul, 14 Jul and 20 Jul, by counting active ant mounds in each plot.

The chemical treatments reduced ant mounding 23-39% one week after application although statistical analysis indicated no significance. Two weeks after application all of the chemical treatments were lower than the Control treatment and the Scimitar and Dursban treatments were significantly different from the Control. At 3 weeks postspray only the Dursban treatment was significantly different from the Control. Throughout the final 2 sample periods, the chemical treatments were consistently lower than the Control treatment although none of the chemical treatments were statistically significantly different from the Control treatment.

		Ant Mounds per 144 ft^2					
		6/17/04	6/23/04	7/1/04	7/7/2004	7/14/04	7/20/04
Control		55.7 a	63.0 a	61.2. c	50.2 b	69.2 a	70.5 a
DeltaGard T&O	0.6 fl oz/1000ft^2	67.7 a	48.3 a	51.5 bc	41.7 b	38.3 a	38.7 a
Tempo SC Ultra	0.27 fl oz/1000ft^2	57.5 a	44.8 a	50.2 abc	39.7 b	60.3 a	57.0 a
Scimitar GC	0.23 fl oz/1000ft^2	61.7 a	38.3 a	34.8 ab	25.7 ab	38.3 a	35.7 a
Dursban Pro	2 qt/A	64.0 a	45.8 a	34.2 a	21.3 a	35.0 a	58.3 a

Means followed by the same letter are not significantly different ($P<0.05$ ANOVA/Fisher's Protected LSD). Data were transformed using $\log_{10}(X+1)$ prior to ANOVA. Untransformed data are presented.

		% Control (compared with the Control Treatment)					
		6/17/04	6/23/04	7/1/04	7/7/2004	7/14/04	7/20/04
Control		0.0	0.0	0.0	0.0	0.0	0.0
DeltaGard T&O	0.6 fl oz/1000ft^2	0.0	23.3	15.8	16.9	44.7	45.1
Tempo SC Ultra	0.27 fl oz/1000ft^2	0.0	28.9	18.0	20.9	12.9	19.1
Scimitar GC	0.23 fl oz/1000ft^2	0.0	39.2	43.1	48.8	44.7	49.4
Dursban Pro	2 qt/A	0.0	27.3	44.1	57.6	49.4	17.3